CONTENTS VOLUME 6 (1987)

Vol. 6, No. 1 (February 1987)

Estimating costs for cathodic protection of in-place, buried, bare metal pipes
T.M. Walski (Vicksburg, MS, U.S.A.) 1
Start-up of gelled crude oil pipelines
J. Sestak (Prague, Czechoslovakia), M.E. Charles and M.G. Cawkwell (Toronto, Ont., Canada) and M. Houska (Prague, Czechoslovakia) 15
Two-dimensional transients in confined liquid flows
Chunxi Tang and E.B. Wylie (Ann Arbor, MI, U.S.A.) 25
Hydraulic transport of solid particles and capsulized materials in pipelines with friction losses lower than water
M.R. Walmsley and G.G. Duffy (Auckland, New Zealand) 33
A comparative assessment of the performance of the dry-gas methods for predicting the occurrence of wet-gas flow conditions
M.R. Ullah (St. Augustine, Trinidad) 41
Temperature variation and pressure drop in pipelines-effects of non-newtonian behaviour, temperature dependent viscosity and viscous heating
J. Sestak (Prague, Czechoslovakia) and M.E. Charles (Toronto, Ont., Canada) 49
An economics analysis of a capsule pipeline for transporting agricultural products under a unit-train system
W.W. Koo (Fargo, ND, U.S.A.) 67
Capsule pipeline research at the Alberta Research Council, 1958-1978
R.A.S. Brown (Edmonton, Alta., Canada) 75
Stimulating boundary erosion with slurry Couette flow
C.A. Shook and F.E. Pilling (Saskatoon, Sask., Canada) 83
A method for pipe blockage control for nearly horizontal slurry flow
C.D. Ponce-Campos (Carbondale, IL, U.S.A.) and V.P. Guntlow (Randolph, NH, U.S.A.) 89
An exploratory analysis of dense phase pneumatic conveying through vertical pipelines
K. Konrad (Blacksburg, VA, U.S.A.) 99
Pulsating flows of solid/liquid suspensions, II. Coal/water slurries
G.F. Round and E. El-Sayed (Hamilton, Ont., Canada) 105

Vol. 6, No. 2 (April 1987)

Review: Buried piping and ASME codes
E.C. Goodling, Jr. (Reading, PA, U.S.A.) 117
Recent advances in standpipe flow
Y.-O. Chong, C.-S. Teo (St. Lucia, Queensland, Australia) and L.-S. Leung (North Ryde, NSW, Australia) 121
Velocity of pneumo capsules in preparation for loading and unloading
S. Kosugi (Ibaraki, Japan) and K. Kanagisawa (Tokyo, Japan) 133
Feed rate of a blow tank solids conveyor in which the particles are non-fluidized
Y. Tomita (Tobata, Kitakyushu,Japan) 147
Pneumatic conveying of ice into deep mines
R.M. Correia, T.J. Sheer and E.J. Chaplain (Johannesburg, South Africa) 155
The effects of inorganic and organic additives on the pumpability of dense fill slurries
R.J. Snow (Melbourne, Victoria, Australia), and R.R. Horsley (Bentley, WA, Australia) 169

Hydrodynamic analysis and design of a capsule pipeline
V.K. Garg, (Kanpur, India) 175
The influence of a collar on an HCP capsule
H.R. Graze and J.A. Brasington (Parkville, Victoria, Australia) 181
Pipe flow of a dense suspension
S.L. Soo (Urbana, IL, U.S.A.) 193
Experimental analysis of solid sediment behaviour in sloping pipes for solid-liquid mixtures
D. Ercolani (Fano, Italy), G. Giachetta (Ancona, Italy) and A. Pareschi (Bologna, Italy) 205
Letters to the Editor 217
Announcement 220

Vol. 6, No. 3 (July 1987)

Pneumocapsule pipelines: potential for North America
G.F. Round and M.I. Marcu (Hamilton, Ontario, Canada) 221
Effect of a 90 degree bend on slurry velocity and concentration distributions
H. Nasr-El-Din and C.A. Shook (Saskatoon, Sask., Canada) 239
Experimental study of capsule lift-off in a 190 mm pipe
H. Liu and S.U. Mohandas (Columbia, MO, U.S.A.) 253
Optimal design of ribbed pipelines in creep conditions
M. Rysz (Warszawska, Poland) 263
On the stress analysis of suspended submarine pipelines
K.A. Ansari (Spokane, WA, U.S.A.) 273
Construction equipment load on buried pipe
M.C. Gemperline (Denver, CO, U.S.A.) 283
Experience with radiometric determination of slurry concentration distributions in pipelines
M. McKibben and C.A. Shook (Saskatoon, Sask., Canada) 291
Drag coefficient of capsules in turbulent flow inside a vertical pipe
K. Yanaida (Osaka, Japan) 297
Behavior of non-uniform-density capsules in HCP
H. Liu and K.H. Rhee (Columbia, MO, U.S.A.) 307
A method to measure discharge in pipelines
L. Flint-Petersen and N. Rajaratnam (Edmonton, Alta., Canada) 319

Author Index 325
Contents Volume 6 326